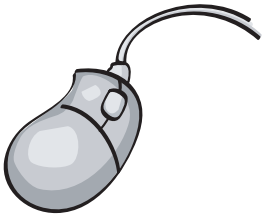
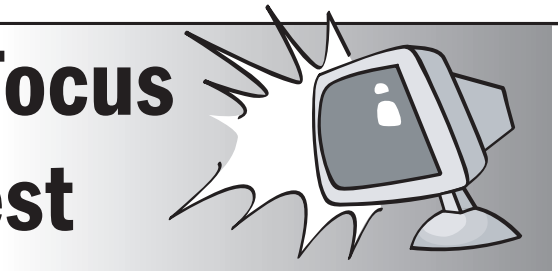
Name_____ Date_____



Cloning in Focus Web Quest



Log on to: http://gslc.genetics.utah.edu/units/cloning and explore this module to find the answers to the questions below.

1. Compare and contrast the following methods of Cloning:

	Embryo Twinning	Somatic Cell Nuclear Transfer
Similarities		
Differences		

2. How does Somatic Cell Nuclear Transfer (SCNT) differ from the natural way of making an embryo?

3. "Click and Clone" to create a mouse clone.

   Write the steps involved in cloning your mouse below(continue on back if necessary):

   What color coat will your mouse clone have?

4. Briefly explain the medical reasons for cloning.

5. List reasons, other than medical, for cloning.

6. What was the first organism cloned? How was it done? In what year did this take place?

7. What was the first organism to be cloned using nuclear transfer?

8. How were the first cows cloned?

9. What organism helped prove that cloning could be done using cells from males (up to this point all cloning experiments had been carried out using cells from females)? What was the organism's name?

10. In what year was the first human clone created and what stage of development did it reach before it stopped growing?

11. Give at least two reasons why a clone might not necessarily be a carbon copy of the donor organism.

Name the two animals (they are the same species) that serve as an example.

12. Test your knowledge in "Is it Cloning or Not?". What was your score and prize?

13. List and briefly explain the risks of cloning.

14. Choose one of the questions raised in "What Are Some Issues In Cloning?". Write the question and your response to it below.